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10577513 - GAU: 2885



PTO/SB/08A (07-05)  
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 9

### Complete if Known

Application Number	10577513
Filing Date	04-27-2006
First Named Inventor	Jon R. Bedson
Art Unit	2885
Examiner Name	Thomas M. Sember

Attorney Docket Number PHO-2.006.PCT.US

### U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> ( <i>if known</i> )			
		US- 6200134	03-00-2001	Kovac, et al.	
		US- 5490049	02-06-1996	Montalan, et al.	
		US- 5397867	03-00-1995	Demeo, Gregory B.	
		US- 6058012	05-00-2000	Cooper, et al.	
		US- 6318886	11-00-2001	Stopa, et al.	
		US- 6796698	09-00-2004	Sommers, et al.	
		US- 6573536	06-03-2003	Dry	
		US- 4118873	10-10-1978	Rothchild	
		US- 5418384	05-23-1995	Yamana, et al.	
		US- 4684801	08-04-1987	Carroll, et al.	
		US- 5522225	06-04-1996	Eskandari	
		US- 6155699	12-00-2000	Miller, et al.	
		US- 4530040	17-00-1985	Petterson, Tor H.	
		US- 6459919	10-01-2002	Lys, et al.	
		US- 6882331	04-19-2005	Wu	
		US- 6534791	03-18-2003	Hayashi, et al.	
		US- 6937754	08-30-2005	Eguchi	
		US- 6291839	09-18-2001	Lester	
		US- 6419384	07-16-2002	Lewis, et al.	

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	<input checked="" type="checkbox"/> T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> ( <i>if known</i> )				
1		JP2003268042	09-00-2003	Chisso Corp.		<input type="checkbox"/>
2		EP1469529	10-20-2004	Martin		<input type="checkbox"/>
3		EP1467416	10-13-2004	Barnett, et al.		<input type="checkbox"/>
4		WO2004038759	06-06-2004	Dahm		<input type="checkbox"/>
5		WO9854227	12-03-1998	Koninklijke Philips Elect		<input type="checkbox"/>
6		WO04011848A2	02-05-2004	Dahm, Jonathan		<input type="checkbox"/>

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Sheet

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		Number-Kind Code <sup>2</sup> (if known)			
		US- 4685139	07-1987	Masuda, et al.	
		US- 5018853	05-1991	Hechel, et al.	
		US- 5660461	08-26-1997	Ignatius, et al.	
		US- 5880828	03-1999	Nakamura et al.	
		US- 5195102	03-16-1993	McLean, et al.	
		US- 6995348	02-07-2006	Bradley, et al.	
		US- 7009165	03-07-2006	Hehemann, et al.	
		US- 2004/0011457	01-22-2004	Kobayashi, et al.	
		US- 7071493	07-04-2006	Owen, et al.	
		US- 6578986	06-2003	Swaris et al.	
		US- 6724473	04-2004	Leong, et al.	
		US- 7102172	09-2006	Lynch, et al.	
		US- 7179670	02-2007	Shelton, et al.	
		US- 2004/0090794	05-13-2004	Ollette, et al.	
		US- 2004/0135159	07-15-2004	Siegel	
		US- 2001/0046652	03/07/2001	Ostler, et al.	
		US- 2004/0057873	03-25-2004	Yerazunis, et al.	
		US- 2005/0098299	05-12-2005	Goodson, Kenneth E.; et al.	
		US- 2005/087750	04-28-2005	Braddell, Jules; et al.	

**FOREIGN PATENT DOCUMENTS**

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
7	GB2399162		09-08-2004	Clayton		
8	GB2396331		06-23-2004	Noutary, et al.		
9	GB2224374		08-1988	Dakin, et al.		
10	JP404204333		11-1990	Sogo, et al	Abstract & Figs.only	
11	WO04078477		09-16-2004	Integration Technology		
12	WO2004009318		01-29-2004	Kennedy, et al.		

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>		Application Number	10577513
Sheet	3	of	9
		Filing Date	04-27-2006
		First Named Inventor	Jon R. Bedson
		Art Unit	2885
		Examiner Name	Thomas M. Sember
		Attorney Docket Number	PHO-2.006.PCT.US

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Examiner Initials	Cite No./	Document Number Number - Kind Code	Publication Date (mm-dd-yyyy)	Name of Patentee or Applicant	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US4011575	03-08-1977	Groves	
		US6607286	08-19-2003	West , et al.	
		US6800500	10-05-2004	Coman , et al.	
		US6831303	12-14-2004	Dry	
		US6525335	02-25-2003	Krames , et al.	
		US6547249	04-15-2003	Collins, III , et al.	
		US6578989	06-17-2003	Osumi , et al.	
		US6630689	10-07-2003	Bhat , et al.	
		US6686581	02-03-2004	Verhoeckx , et al.	
		US6815724	09-11-2004	Dry; Joel M.	
		US6822991	11-23-2004	Collins, III , et al.	
		US6992335B2	01-31-2006	Ohkawa	
		US6163036	12-19-2000	Taninaka, et al.	
		US5892579	04-06-1999	Elyasaf, et al.	
		US6088185	07-11-2000	Ratliff, et al.	
		US6141040	10-31-2000	Toh	
		US5554849	09-10-1996	Gates	

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		US4734714	03-29-1988	Takasu , et al.	
		US5150623	09-29-1992	Woods	
		US6222207	04-24-2001	Carter-Coman , et al.	
		US5436710	07-25-1995	Uchiyama	
		US5479029	12-26-1995	Uchida , et al.	
		US5449926	09-12-1995	Holm , et al.	
		US5623510	04-22-1997	Hamilton , et al.	
		US5632551	05-27-1997	Roney , et al.	
		US5698866	12-16-1997	Doiron , et al.	
		US5715270	02-03-1998	Zediker , et al.	
		US5877899	03-02-1999	Stern , et al.	
		US5661645	08-26-1997	Hochstein	
		US5936353	08-10-1999	Triner , et al.	
		US6160354	12-12-2000	Ruvinskiy , et al.	
		US6258618	07-10-2001	Lester	
		US6273596	08-14-2001	Parkyn, Jr.	
		US6328456	12-11-2001	Mize	
		US6299329	10-09-2001	Mui , et al.	

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		US6420199	07-16-2002	Coman , et al.	
		US6424399	07-23-2002	Shimada , et al.	
		US6441873	08-27-2002	Young	
		US6445124	09-03-2002	Asai , et al.	
		US6798152	09-28-2004	Rooke , et al.	
		US6826059	11-30-2004	Bockle , et al.	
		US6836081	12-28-2004	Swanson , et al.	
		US6869635	03-22-2005	Kobayashi	
		US6367950	04-09-2002	Yamada , et al.	
		US6375340	04-23-2002	Biebl , et al.	
		US6288497	09-11-2001	Chang , et al.	
		US6340868	01-22-2002	Lys , et al.	
		US6498355	12-24-2002	Harrah , et al.	
		US6536923	03-25-2003	Merz	
		US4595289	06-17-1986	Feldman, et al.	
		US5424544	06-13-1995	Shelton, et al.	

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		US20050152146	07-14-2005	Mark Owen	
		US20040026721A1	02-12-2004	Dry, Joel M.	
		US20040141326A1	07-22-2004	Dry, Joel M.	
		US20050218468A1	10-06-2005	Mark D. Owen	
		US20050230600A1	10-20-2005	Olson, Steven J. ; et al.	
		US20050253252A1	11-17-2005	Owen, Mark D. ; et al.	
		US20050285129A1	12-29-2005	Jackson, Joseph H. III ; et al.	
		US20050231713A1	10-20-2005	Owen, Mark D. et al.	
		US20060216865A1	09-28-2006	Owen, Mark D. et al.	
		US20040000677A1	01-01-2004	Dry, Joel M.	
		US20040119084A1	06-24-2004	Hsieh, Min-Hsun ; et al.	
		US20040206970	04-16-2003	Martin	
		US2001002120A1	05-31-2001	Bessendorf, Simon; et al.	
		US2001030782A1	10-18-2001	Trezza, John A.	
		US2003230765A1	12-18-2003	Dry, Joel M.	
		US20040113549	06-17-2004	Roberts, John K ; et al.	
		US20040166249	01-07-2004	Siegel	
		US20040238111A1	12-02-2004	Siegel, Stephen B.	
		US20030038943	02-00-2003	Almarzouk, et al.	

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>				Application Number	10577513
Sheet	7	of	9	Filing Date	04-27-2006
				First Named Inventor	Jon R. Bedson
				Art Unit	2885
				Examiner Name	Thomas M. Sember
				Attorney Docket Number	PHO-2.006.PCT.US

**U.S. PATENT DOCUMENTS**

Examiner Initials	Cite No.	Document Number Number - Kind Code	Publication Date (mm-dd-yyyy)	Name of Patentee or Applicant	Pages, Columns, Lines; Where Relevant Passages or Relevant Figures Appear
		US2007051964A1	03-08-2007	Owen; Mark D. ; et al.	
		US20070278504A1	12-06-2007	Jasmin; Roland ; et al.	
		US20020187454	12-00-2002	Melikechi, et al.	
		US20070154823A1	07-05-2007	Marson; Jon ; et al.	
		US20020151941	10-17-2002	Okawa, Shinichi ; et al.	
		US2003002282A1	01-02-2003	Swaris, Jagath ; et al.	
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		US2005018424A1	01-27-2005	Popovich, John M.	
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		US6554451	04-29-2003	Keuper	
		US6561640	05-13-2003	Young	
		US5555038	09-10-1996	Conway	
		US6366017	04-02-2002	Antoniadis , et al.	
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		US5857767	01-12-1999	Hochstein	

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Sheet:	8	of	9
			Application Number    10577513 Filing Date    04-27-2006 First Named Inventor    Jon R. Bedson Art Unit    2885 Examiner Name    Thomas M. Sember Attorney Docket Number    PHO-2.006.PCT.US

**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Cite No.	Foreign Patent Document Country Code – Number – Kind Code	Publication Date (mm-dd-yyyy)	Applicant	Relevant Passages or Figures
13	DE8815418		02-16-1989	Isensee-Electronic-GMBH	
14	EP0560605		03-11-1993	Sharp Kabushiki Kaisha	
15	JP59035492		02-27-1984	TOKYO SHIBAURA ELECTRIC CO	
16	WO02086972A1		10-31-2002	Plasma Ireland Limited	
17	WO9716679		05-09-1997	Hewlett Packard Co.	
18	WO0037904		06-29-2000	Koninkl Philips Electronics	
19	WO0102846		01-11-2001	Corning Inc. Corning Applied	
20	WO0206723		01-24-2002	Sirona Dental Sys GMBH & Co.	
21	WO06072071A2		07-06-2006	Phoseon Technology, Inc.	
22	WO05043598A2		05-12-2005	Phoseon Technology, Inc.	
23	WO0213231		02-14-2002	Osram Opto Semiconductors	
24	WO0226270		04-04-2002	Garmbro Inc.	
25	EP0935145		08-11-1999	Ims Ind Micro System	
26	EP1158761		11-28-2001	Gretag Imaging Trading Ag	
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Sheet	9	of	9		

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### NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	27	PCT International Search Report dated November 19, 2003 and International Preliminary Examination Report dated September 29, 2003 for International PCT Application No. PCT/US03/14625, filed May 8, 2003, 6 pages.	
	28	PCT International Search Report and Written Opinion dated August 26, 2005 for International PCT Application No. PCT/US05/09407, filed March 18, 2005, 11 pages.	
	29	PCT International Search Report and Written Opinion dated June 17, 2005 for International PCT Application No. PCT/US04/36370, filed November 1, 2004, 6 pages.	
	30	PCT International Search Report and Written Opinion dated October 13, 2006 for International PCT Application No. PCT/US05/13448, filed April 19, 2005, 8 pages.	
	31	PCT International Search Report and Written Opinion dated September 28, 2006 for International PCT Application No. PCT/US05/11216, filed March 30, 2005, 9 pages.	
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	33	PCT International Search Report and Written Opinion dated February 6, 2007 for International PCT Application No. PCT/US05/12608, April 12, 2005, 9 pages.	
	34	PCT International Search Report and Written Opinion dated February 27, 2008 for International PCT Application No. PCT/US05/47605, December 30, 2005, 9 pages.	
	35	Electromagnetic spectrum ( <a href="http://www.brocku.ca/earthsciences/people/gfinn/optical/spectrum.gif">http://www.brocku.ca/earthsciences/people/gfinn/optical/spectrum.gif</a> )	
	36	Supplemental European Search Report and written opinion for corresponding EU application number EP03724539, dated November 21, 2007, 8 pages total	
	37	PERKOWSKI, James; "Spacing of High-Brightness LEDs on Metal Substrate PCB's for Proper Thermal Performance," IEEE Inter Soc. Conference on Thermal Phenom, 2004,	
	38	PCT International Search Report and Written Opinion dated June 3, 2005 for International PCT Application No. PCT/US04/36260, October 28, 2004, 9 pages.	
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